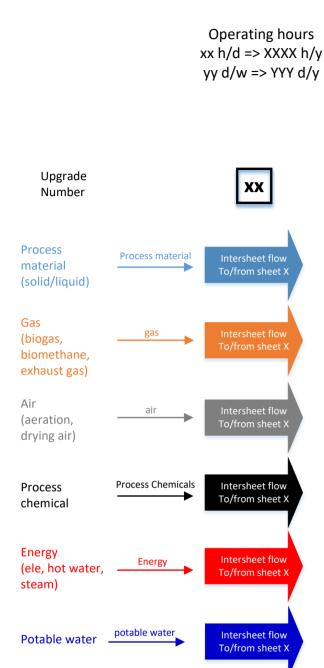
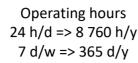


### ANAERGIA BFD LEGEND

### **CONFIDENTIAL DRAFT – NOT FOR CONSTRUCTION**





**CRANE** 

TIPPER

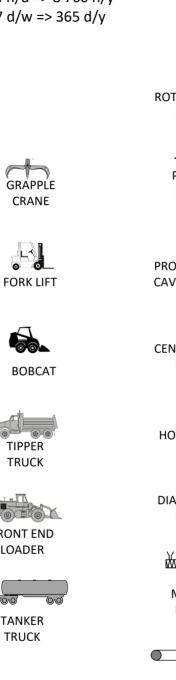
**TRUCK** 

FRONT END

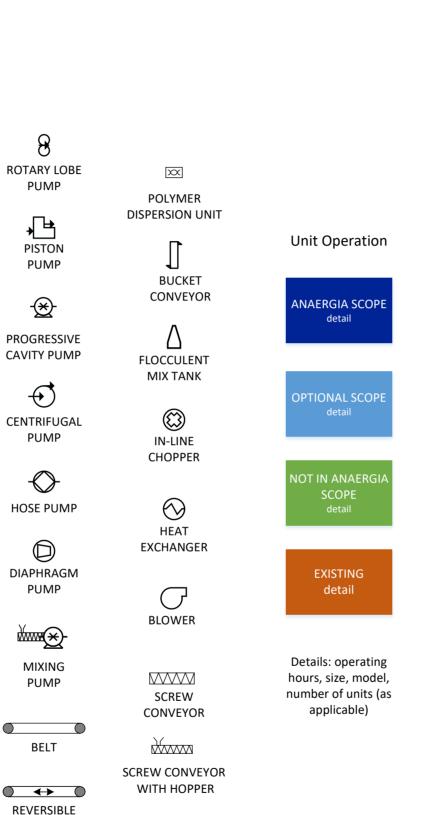
LOADER

**TANKER** 

**TRUCK** 

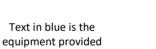


BELT





Optional **TEXT TEXT TEXT TEXT** 



by Anaergia

#### Existing tank

Roof type:

Site constructed tank

Mesophilic

Ø: XXm

FB: XXm

Roof type:

Insulation:

FUNCTION Mesophilic Operating Vol: XXm³ HRT: XXd / SRT: XXd OLR: XX kg VS/m<sup>3</sup>.d Wall Height: XXm

Mixers: # Type Material of construction Roof type: Insulation:

Prefabricated tank (HDPE or Stainless steel)



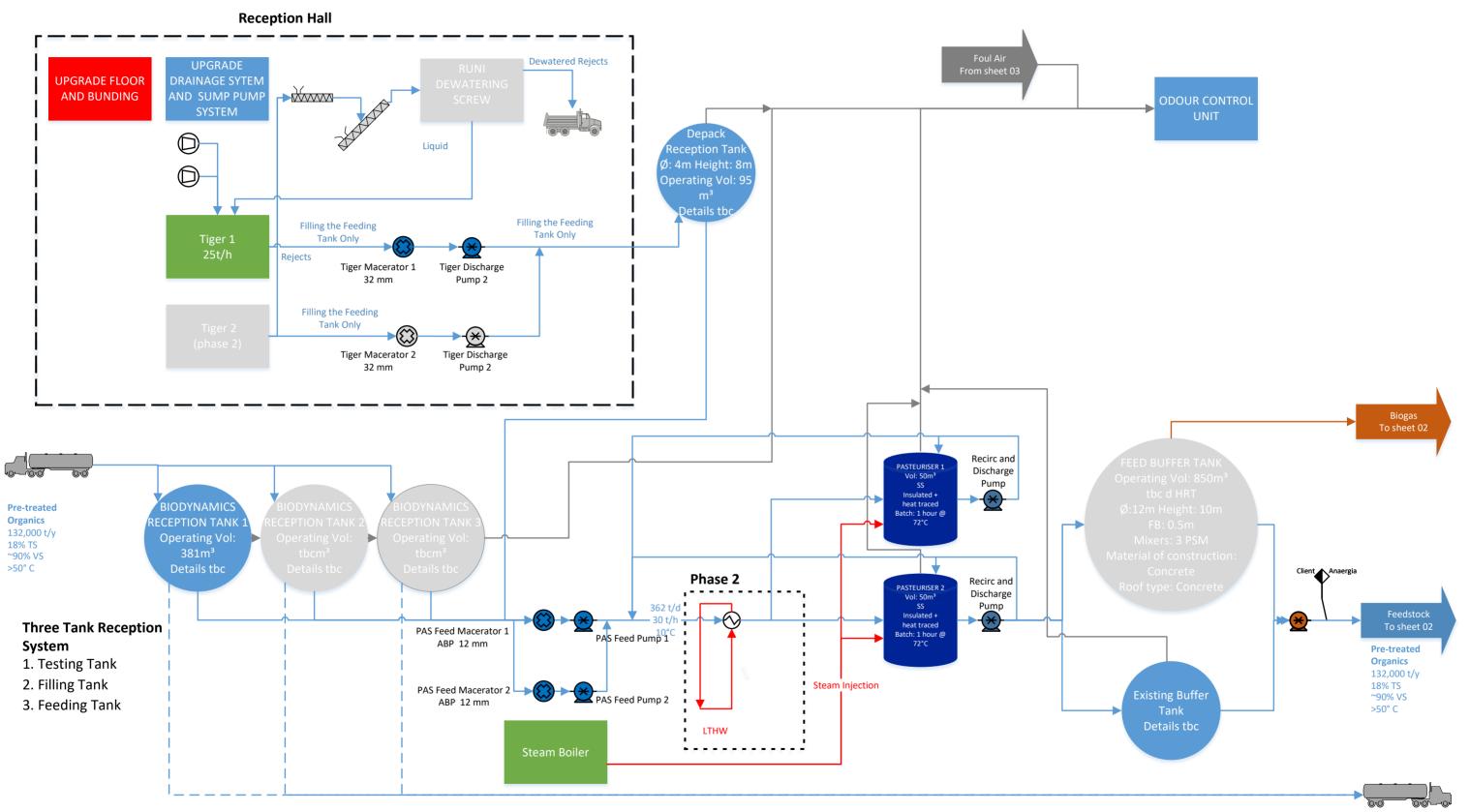
Comments:
1
2
3

Rev.	Date	Creat.	Check.	Appr.	Comments

Drawing Name:					
Project:	^				
Project-No:	<b>Anaergia</b>				
Country:	Mildergia				
Customer:					
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### **Bio Dynamics Additional Items** Sheet 01

### **CONFIDENTIAL DRAFT - NOT FOR CONSTRUCTION**



#### **Comments:**

2 ...

3 ...

Rev 1	09/07/2021	BJP			
Rev 0	11/03/2021	BJP			
Rev.	Date	Creat.	Check.	Appr.	Comments

LIQUID FOOD WASTE EXPORT

Drawing Name: Additional Items Sheet 01 Project: Bio Dynamic, Nottingham

Project-No: Country: UK

Customer: BioDynamic



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### Bio Dynamics Additional Items Sheet 02

### CONFIDENTIAL DRAFT – NOT FOR CONSTRUCTION

365 d/v 24 h/d => 8 760 h/y SITE WIDE PANEL/PLC/ SCADA SYSTEM Flare 2000 Nm3/h Eletricity BIOGAS 1,081 Nm<sup>3</sup>/h 2,450 kW<sub>e</sub> BIOGAS **BIOGAS** CHPs 58% CH4 instantaneous TREATMENT CHP1 500 kW based on 40% eff. **Duty Standby** CHPs Chiller Carbon Filter CHP1 90% uptime CHP2 80% uptime Hot Water to Digesters Heat Exchangers and 1,050 kW<sub>th</sub> Distribution Manifol ► Hot Water Total for 3 digesters and Pumping (Based on >50° C Feedstock) Insulate All Digesters Reject Gas Line 1,013 Nm3/h **CONDENSATE** 58% CH4 (i.e. CO2 added back in) Repaired Heating/ ANAEROBIC TRAP 16 bar lockable hand valve Air Desulphurisation DIGESTER Working Vol: 3,400m Biomethane condensate **BIOGAS** 1,013 Nm<sup>3</sup>/h **CONDENSATE** 602 Nm<sup>3</sup> Ø28m, height 6m **BIOGAS** 58% CH4 TREATMENT **TRAP** MESOPHILIC 40°C 92% uptime TREATMENT GUP + GEU condensate 2x PSM mixers 4.85 m Nm3/y **BOOSTER** 4.74 m Sm3/y Propanated HRT 19 d 47 GWh/y Biomethane ecast Concrete Tank (existing Bypass Gas Line ble Membrane Gas Holde **Upgrader Supply** Not Insulated ANAEROBIC **POST DIGESTER** 302 tpd Working Vol: 6,200m<sup>3</sup> 13 tph **Whole Digestate** Ø33m, height 8m TANKER LOADING ~4% TS to Tanker MESOPHILIC 40°C PUMP AND CONTROL 362 tpd 110,000 tpy Option 3x PSM 940 mixers 15 tph **Pre-treated** HRT 21 d ~6% TS ANAEROBIC 18% TS Organics Precast Concrete Tank (existing) ~90% VS DIGESTER 132,000 t/v Double Membrane Gas Holder New Hot Water Working Vol: 3,400m<sup>3</sup> 18% TS **Heating Rings** Not Insulated Oxygen Ø28m, height 6m ~90% VS 670 kW<sub>th</sub> >50° C MESOPHILIC 40°C 2x PSM mixers HRT 19 d Overall HRT: 40 days recast Concrete Tank (existing uble Membrane Gas Hold Overall OLR: 4.6 kg VS/m3.d Air Desulphurisation Digester 1 **FOAM** Repaired Heating/ Digester 2 Cooling Rings Air Desulphurisation Post Digester **Drawing Name: Additional Items Sheet 02 Comments:** 

### 1 ...

2 ...

3 ...

Project: Bio Dynamic, Nottingham

Project-No: Country: UK

### Customer: BioDynamic

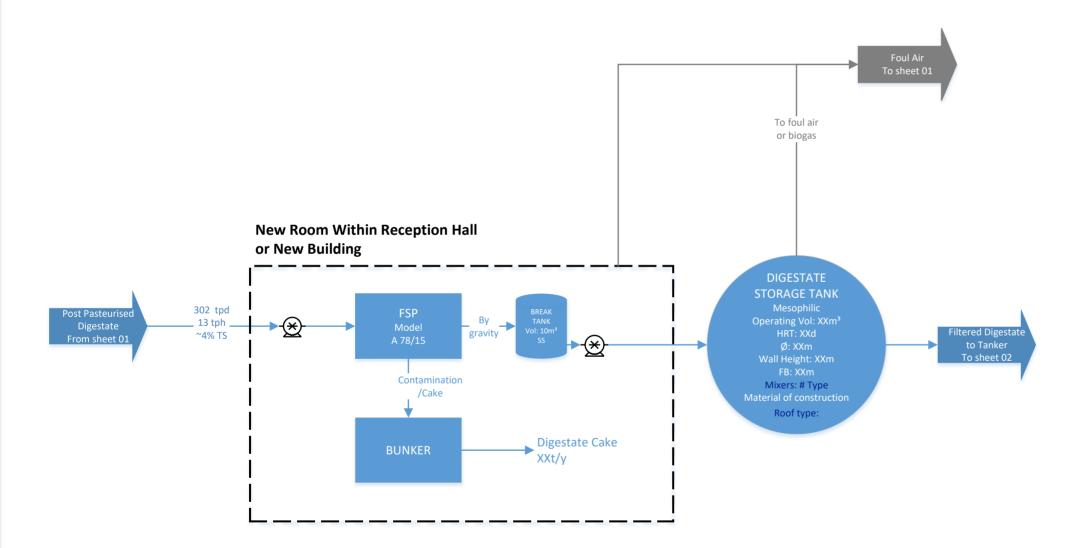
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Anaergia



## Bio Dynamics Additional Items Sheet 03

365 d/y 24 h/d => 8 760 h/y



# Comments: 1 ... 2 ... 3 ...

Rev 0	11/03/2021	BJP			
Rev.	Date	Creat.	Check.	Appr.	Comments

Drawing Name: Additional Items Sheet 03					
Project: Bio Dynamic, Nottingham	^				
Project-No:	<b>Anaergia</b>				
Country: UK	Mildergia				
Customer: BioDynamic					
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